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Office 365 and Azure –Better Together

Mika Berglund

- In the IT business since the 90s
- Microsoft products and services
  - Microsoft 365 (Office 365)
  - Azure
- Employers
  - Visual Systems
  - Tieto
  - Sininen Meteoriitti
  - Develore
  - Sininen Meteoriitti

  - MikaBerglund.com

Agenda

- Why use Azure services?

- Samples of typically used services

- Demos
  - Customer feedback analysis
  - Document publishing
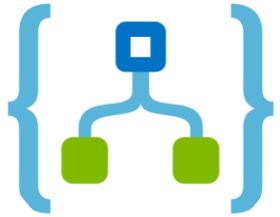 - Image analysis

- Pros, cons & attention

Why use Azure services?

- A lot of useful functionality not available in Microsoft 365
- No-code/low-code solutions are limited
- Power Automate Premium paid subscription
- Microsoft 365 services are personal by nature
- Integration possibilities
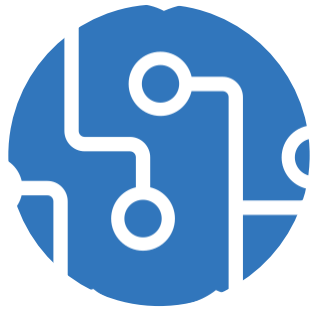
Typically used Azure services

Logic Apps
- Workflows
- Processes

Storage
- Databases
- Files
- Tables
- Queues

Cognitive Services
- Text analysis
- Translation
- Image analysis

Function Apps
- Custom code
- Code-based workflows
- APIs

Web Apps
- Browser-based applications
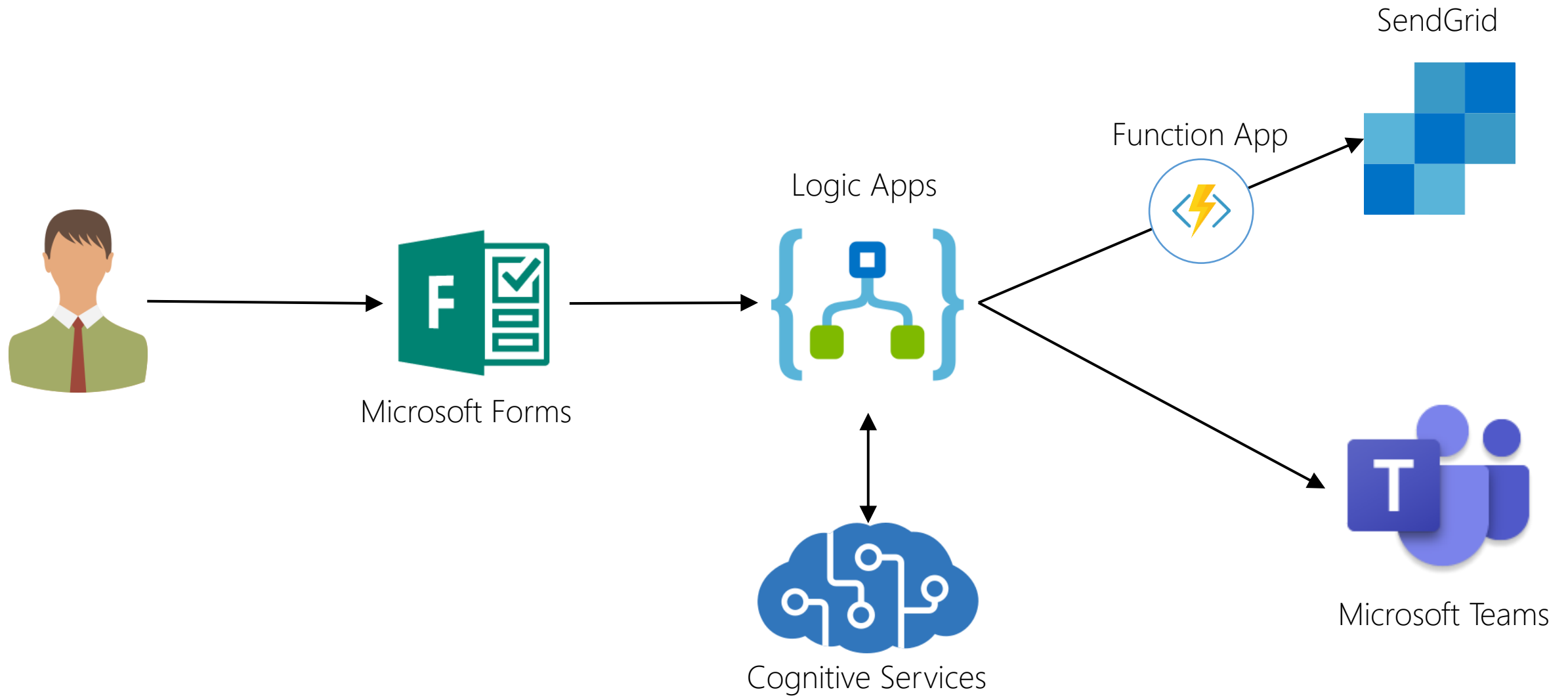- User Interfaces

Demos

Customer feedback analysis

Document publishing

Image analysis

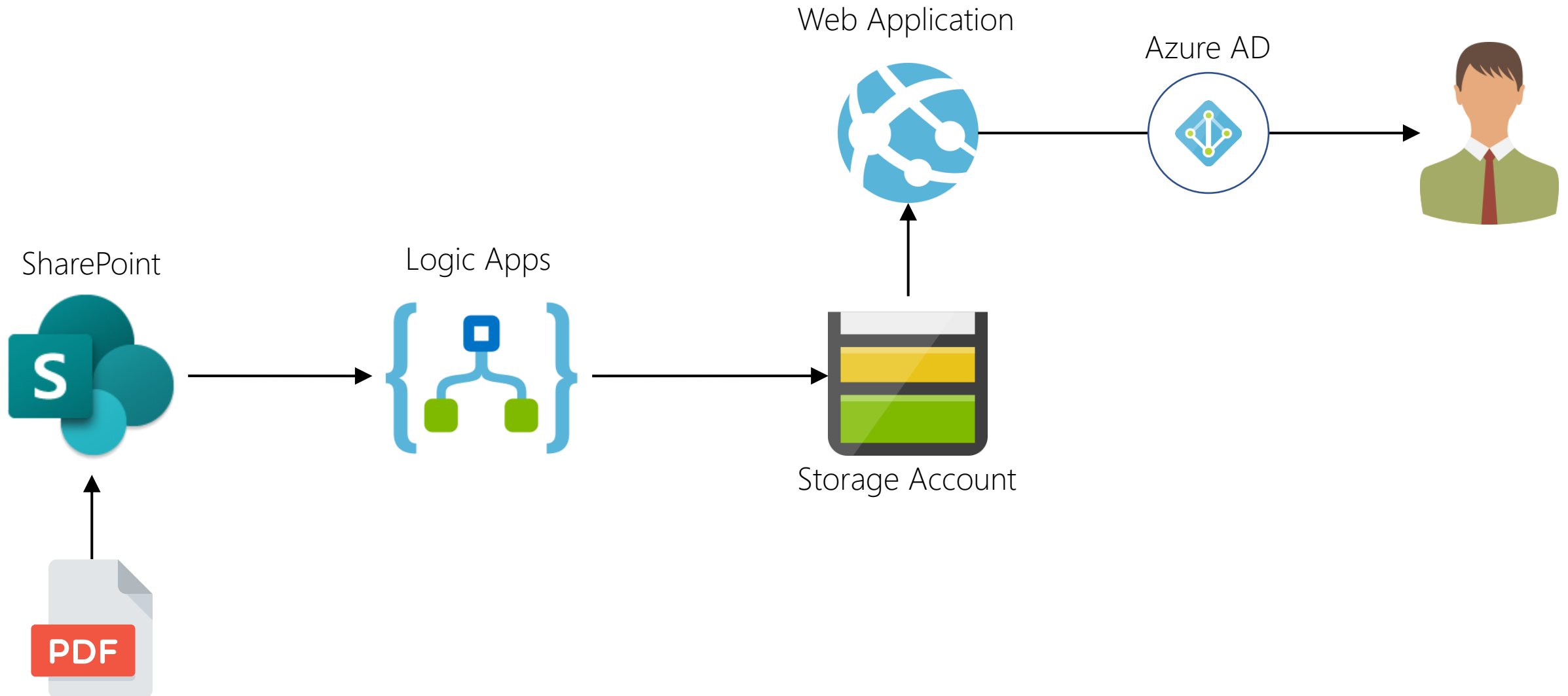# Demo – Customer feedback analysis

Microsoft Forms

Logic Apps

Cognitive Services

Function App

SendGrid

Microsoft Teams

Azure cost, customer feedback

- Logic Apps
    - 6 * connector
    - 3 * action
    - 1000 feedbacks: (5 * 0,000106 + 3 * 0,000022) * 1000 = 0,596 EUR
- Cognitive Services, text analysis
    - Free, 5000 transactions / mnth
    - 63 EUR / mnth, 25 000 transactions
    - 210 EUR / mnth, 100 000 transactions
- SendGrid
    - Free, 25000 e-mails / mnth
    - 9,95 EUR, 40 000 e-mails / mnth
    - 79,95 EUR, 100 000 e-mails / mnth
- Azure Functions
    - Starting at 46,17 EUR / mnth
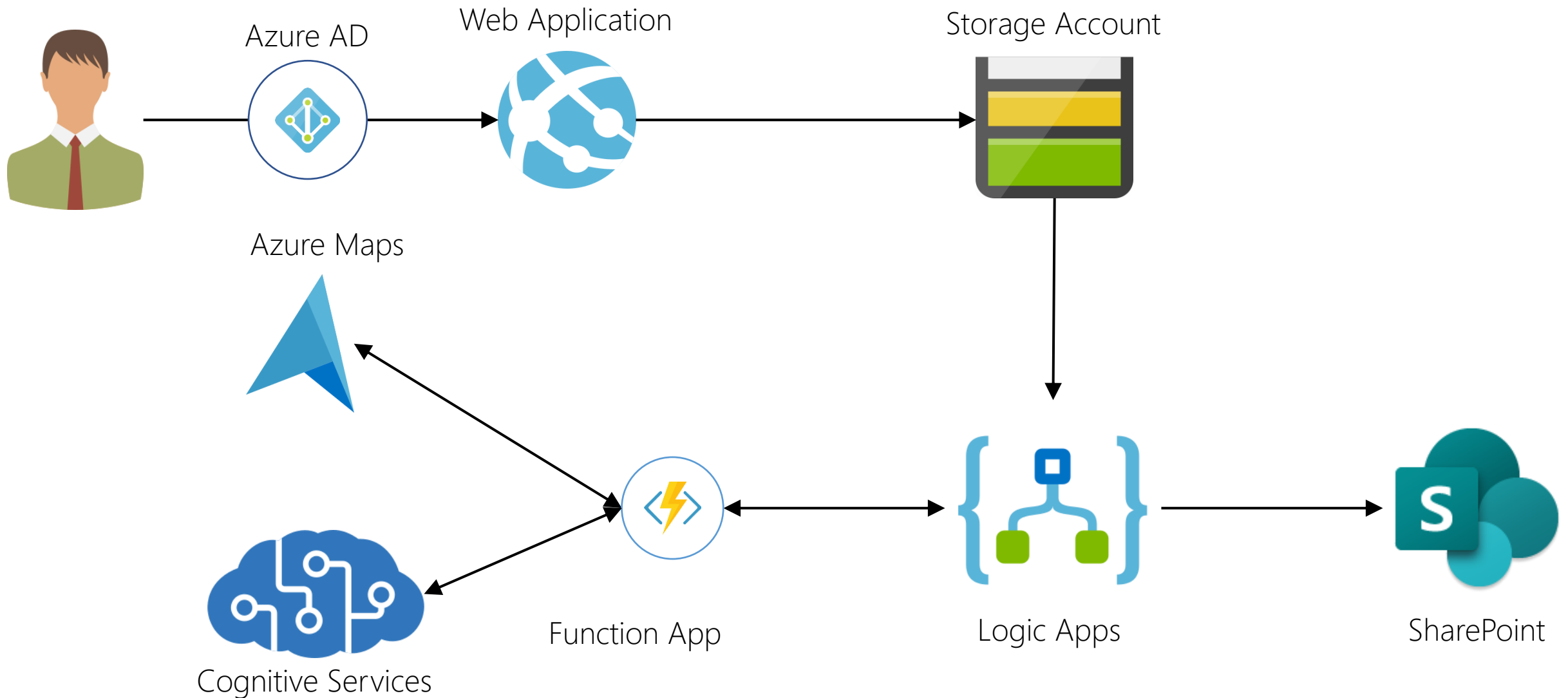   - (A free version is also available)

Demo – Document publishing

SharePoint

Logic Apps

Web Application

Azure AD

Storage Account

PDF

Azure cost, document publishing

- Logic Apps
  - 2 * connector
  - 1 * action
  - 1000 documents: (2 * 0,000106 + 1 * 0,000022) * 1000 = 0,234 EUR

- Storage
  - 100 GB: 1,65 EUR / mnth
  - Writing: 0,046 EUR / 10 000 transactions
  - Reading: 0,004 EUR / 10 000 transactions

- Web App
  - Starting at 46,17 EUR / mnth

Demo – Image analysis

Azure cost, image analysis

- Logic Apps
  - 2 * connector
  - 1 * action
  - 1 000 images: (11 * 0,000106 + 1 * 0,000022) * 1000 = 1,188 EUR
- Azure Maps
  - Free, 25 000 transactions
  - + 0,42 EUR / 1 000 transactions
- Cognitive Services, image analysis
  - Free, 5 000 transactions / mnth
  - 3,5 EUR / 1 000 transactions
- Storage
  - 100 GB: 1,65 EUR / mnth
  - Writing: 0,046 EUR / 10 000 transactions
  - Reading: 0,004 EUR / 10 000 transactions
- Web App + Function App
  - Starting at 46,17 EUR / mnth

Pros, cons

Pros

- More out of O365 / M365
- A lot of additional potential in Azure
- Integration possibilities

Cons

- Cost estimation can be hard / impossible
- Requires additional skills

Attention!

- Usage-based billing
- Know your cost!
- Modularity / reusability
- Favour triggering over polling
- Avoid unpredictable loops

Useful links

- Blog
  https://mikaberglund.com

- Assets
  https://github.com/MikaBerglund/hpr-2020-05